

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently amended) A vehicle braking apparatus comprising:

a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system;

a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on one of the first and second wheels that is linked to a non-driving shaft and that is subject to a corresponding one of the first and second braking systems; and

an internal combustion engine configured and arranged to drive one of the first and second wheels that is linked to a driving shaft.

2. (Currently amended) ~~The~~ A vehicle braking apparatus comprising: as recited in claim 1, wherein

a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system; and

a regenerative braking apparatus including a the first regenerative braking device-is configured and arranged to apply the first regenerative braking force on the second wheel subject to the second braking system.

3. (Withdrawn) The vehicle braking apparatus as recited in claim 1, wherein the first regenerative braking device is configured and arranged to apply the first regenerative braking force on the first wheel subject to the first braking system.

4. (Withdrawn) The vehicle braking apparatus as recited in claim 2, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on the first wheel subject to the first braking system.

5. (Withdrawn) The vehicle braking apparatus as recited in claim 4, wherein the hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a second hydraulic braking force on an additional first wheel subject to the first braking system;

the electric braking apparatus includes a second electric braking device configured and arranged to apply a second electric braking force on an additional second wheel subject to the second braking system; and

the regenerative braking apparatus includes a third regenerative braking device that is configured and arranged to apply a third regenerative braking force on the additional first wheel and a fourth regenerative braking device that is configured and arranged to apply a fourth regenerative braking force on the additional second wheel.

6. (Currently amended) ~~The A vehicle braking apparatus as recited in claim 1,~~
~~further comprising:~~

a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system;

a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on one of the first and second wheels subject to a corresponding one of the first and second braking systems; and

a regenerative power supply pathway configured and arranged to directly supply power regenerated by the regenerative braking apparatus to the electric braking apparatus.

7. (Currently amended) ~~The A vehicle braking apparatus comprising: as recited in claim 1, wherein~~

a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system; and

a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on one of the first and second wheels subject to a corresponding one of the first and second braking systems,

the electric braking apparatus ~~includes~~ including a parking brake device that is configured and arranged to maintain a parking braking force.

8. (Withdrawn) The vehicle braking apparatus as recited in claim 1, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to be independently operable from the first regenerative braking device to provide a second regenerative braking force to one of the first and second wheels subject to one of the first and second braking systems.

9. (Withdrawn) The vehicle braking apparatus as recited in claim 1, wherein the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is disengagably linked to a drive shaft side of an engine.

10. (Currently amended) ~~The~~ A vehicle braking apparatus comprising: ~~as recited in claim 1, wherein~~

a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system; and

a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is linked to a non-driving shaft subject to a corresponding one of the first and second braking systems.

11. (Original) The vehicle braking apparatus as recited in claim 1, wherein the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels.

12. (Original) The vehicle braking apparatus as recited in claim 11, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels.

13. ~~The~~ A vehicle braking apparatus comprising: as recited in claim 12, wherein a hydraulic braking apparatus including a first hydraulic braking device configured and arranged to apply a first hydraulic braking force on at least one first wheel subject to a first braking system and a second hydraulic braking device configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels;

an electric braking apparatus including a first electric braking device configured and arranged to apply a first electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system and a second electric braking device configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels; and

a regenerative braking apparatus including a ~~the~~ first regenerative braking device is configured and arranged to apply ~~the~~ a first regenerative braking force on both of the rear wheels subject to the second braking system.

14. (Withdrawn) The vehicle braking apparatus as recited in claim 13, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on both of the front wheels.

15. (Withdrawn) The vehicle braking apparatus as recited in claim 12, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on one of the rear wheels and the first regenerative braking device that is configured and arranged to apply the first regenerative braking force on the other of the rear wheels.

16. (Withdrawn) The vehicle braking apparatus as recited in claim 12, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on both of the rear wheels.

17. (Withdrawn) The vehicle braking apparatus as recited in claim 15, wherein the regenerative braking apparatus includes a third regenerative braking device that is configured and arranged to apply a third regenerative braking force on one of the front wheels and a fourth regenerative braking device that is configured and arranged to apply a fourth regenerative braking force on the other of the front wheels.

18. (Withdrawn) The vehicle braking apparatus as recited in claim 1, wherein the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being rear wheels.

19. (Withdrawn) The vehicle braking apparatus as recited in claim 18, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being front wheels.

20. (Withdrawn) The vehicle braking apparatus as recited in claim 19, wherein the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

21. (Withdrawn) The vehicle braking apparatus as recited in claim 19, wherein the regenerative braking apparatus includes a second regenerative braking device that is configured and arranged to apply a second regenerative braking force on one of the rear

wheels and the first regenerative braking device that is configured and arranged to apply the first regenerative braking force on the other of the rear wheels.

22. (Currently amended) A vehicle braking apparatus comprising:

hydraulic braking means for applying a hydraulic braking force on at least one first wheel subject to a first braking system with the first wheel being a front wheel linked to a drive-shaft;

electric braking means for applying an electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system with the second wheel being a rear wheel; and

regenerative braking means for applying a regenerative braking force on ~~one of the first and second wheels~~ the second wheel subject to ~~one of the first and second braking systems~~ the second braking system.

23. (Currently amended) A method of controlling a braking apparatus comprising:

driving a drive-shaft by an internal combustion engine;

selectively applying a hydraulic braking force on at least one first wheel subject to a first braking system;

selectively applying an electric braking force on at least one second wheel subject to a second braking system that is different from the first braking system; and

selectively applying a regenerative braking force on one of the first and second wheels that is linked to a non-driving shaft and that is subject to one of the first and second braking systems.

24. (New) The vehicle braking apparatus as recited in claim 2, further comprising:

a regenerative power supply pathway configured and arranged to directly supply power regenerated by the regenerative braking apparatus to the electric braking apparatus.

25. (New) The vehicle braking apparatus as recited in claim 2, wherein the electric braking apparatus including a parking brake device that is configured and arranged to maintain a parking braking force.

26. (New) The vehicle braking apparatus as recited in claim 2, wherein the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is linked to a non-driving shaft.

27. (New) The vehicle braking apparatus as recited in claim 2, wherein the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels.

28. (New) The vehicle braking apparatus as recited in claim 27, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels.

29. (New) The vehicle braking apparatus as recited in claim 28, wherein the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

30. (New) The vehicle braking apparatus as recited in claim 6, wherein the electric braking apparatus including a parking brake device that is configured and arranged to maintain a parking braking force.

31. (New) The vehicle braking apparatus as recited in claim 6, wherein the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is linked to a non-driving shaft.

32. (New) The vehicle braking apparatus as recited in claim 6, wherein the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels.

33. (New) The vehicle braking apparatus as recited in claim 32, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels.

34. (New) The vehicle braking apparatus as recited in claim 33, wherein

the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

35. (New) The vehicle braking apparatus as recited in claim 7, wherein the regenerative braking apparatus is operatively coupled to one of the first and second wheels that is linked to a non-driving shaft.

36. (New) The vehicle braking apparatus as recited in claim 7, wherein the hydraulic braking apparatus includes a second hydraulic braking device that is configured and arranged to operatively couple an additional first wheel with the first wheels being front wheels.

37. (New) The vehicle braking apparatus as recited in claim 36, wherein the electric braking apparatus includes a second electric braking device that is configured and arranged to operatively couple an additional second wheel with the second wheels being rear wheels.

38. (New) The vehicle braking apparatus as recited in claim 37, wherein the first regenerative braking device is configured and arranged to apply the first regenerative braking force on both of the rear wheels.

39. (New) The vehicle braking apparatus as recited in claim 10, wherein
the hydraulic braking apparatus includes a second hydraulic braking device that is
configured and arranged to operatively couple an additional first wheel with the first wheels
being front wheels.

40. (New) The vehicle braking apparatus as recited in claim 39, wherein
the electric braking apparatus includes a second electric braking device that is
configured and arranged to operatively couple an additional second wheel with the second
wheels being rear wheels.

41. (New) The vehicle braking apparatus as recited in claim 40, wherein
the first regenerative braking device is configured and arranged to apply the first
regenerative braking force on both of the rear wheels.

42. (New) A vehicle braking apparatus comprising:
a hydraulic braking apparatus including a first hydraulic braking device configured
and arranged to apply a first hydraulic braking force on at least one first wheel subject to a
first braking system with the first wheel being a front wheel linked to a drive-shaft;
an electric braking apparatus including a first electric braking device configured and
arranged to apply a first electric braking force on at least one second wheel subject to a
second braking system that is different from the first braking system with the second wheel
being a rear wheel; and

a regenerative braking apparatus including a first regenerative braking device configured and arranged to apply a first regenerative braking force on the second wheel subject to the second braking system.